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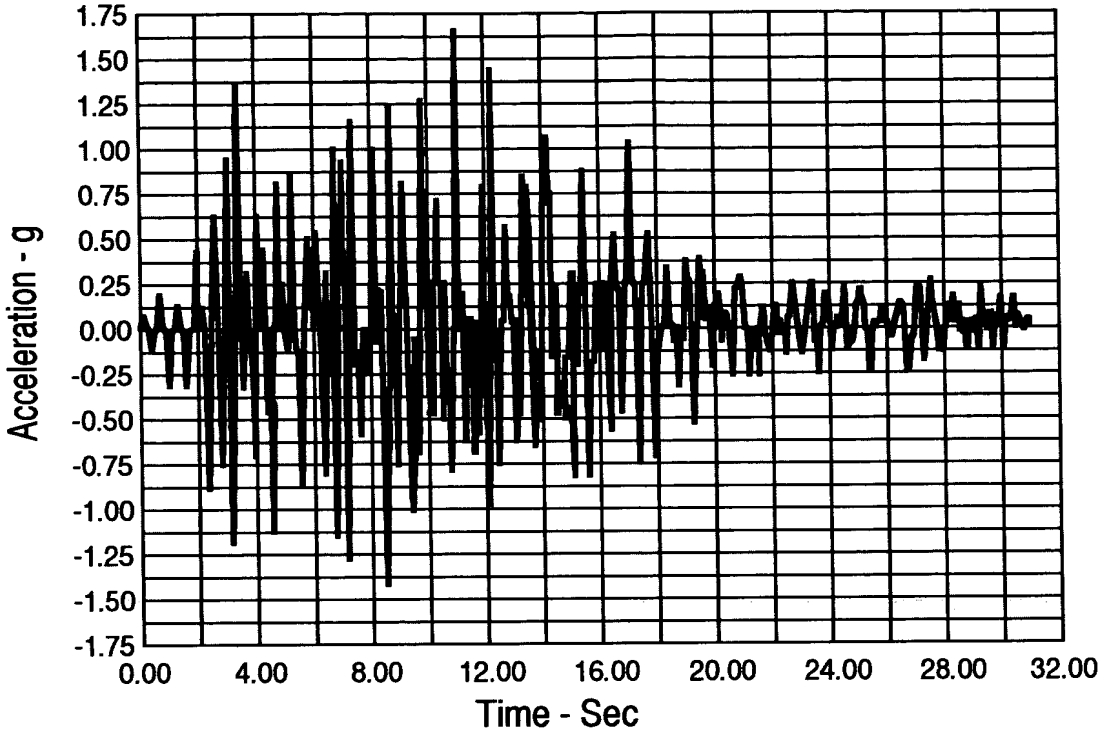

Earthquake Synthesized Waveform- VERTEQII

FIG. 1A

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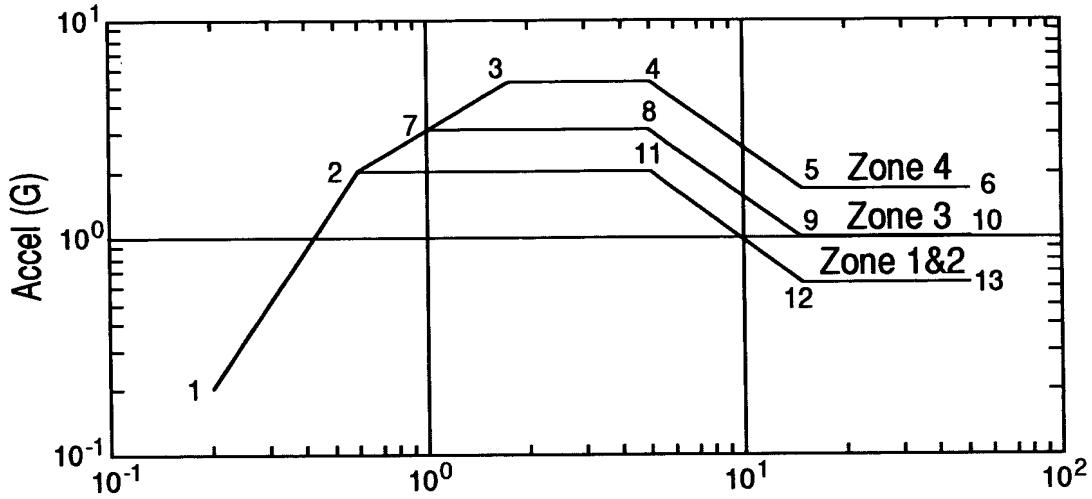

Coordinate Point	Frequency (Hz)	Values for Upper Floor Acceleration (g)
Zones 1 and 2		
1	0.3	0.2
2	0.6	2.0
11	5.0	2.0
12	15.0	0.6
13	50.0	0.6
Zone 3		
1	0.3	0.2
2	0.6	2.0
7	1.0	3.0
8	5.0	3.0
9	15.0	1.0
10	50.0	1.0
Zone 4		
1	0.3	0.2
2	0.6	2.0
3	2.0	5.0
4	5.0	5.0
5	15.0	1.6
6	50.0	1.6

FIG. 1B

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200

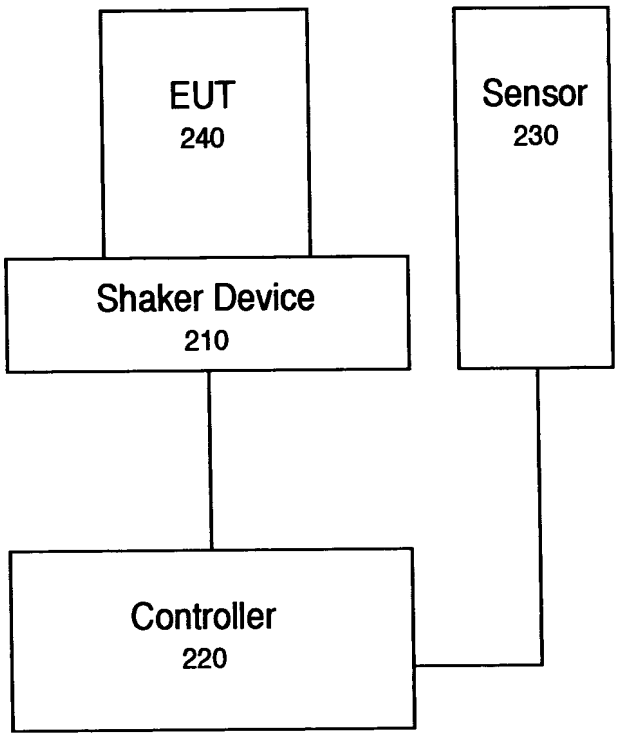

FIG. 2

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300

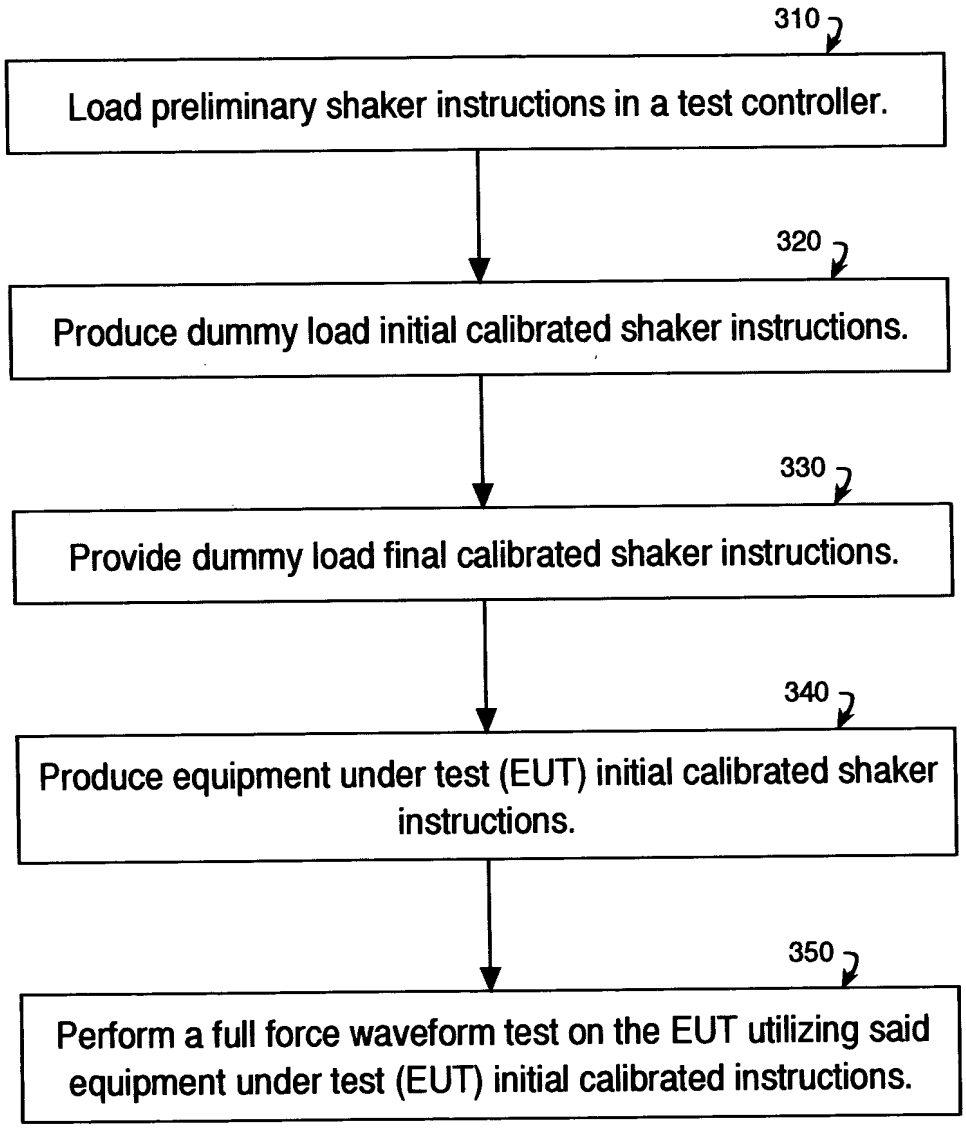

FIG. 3A

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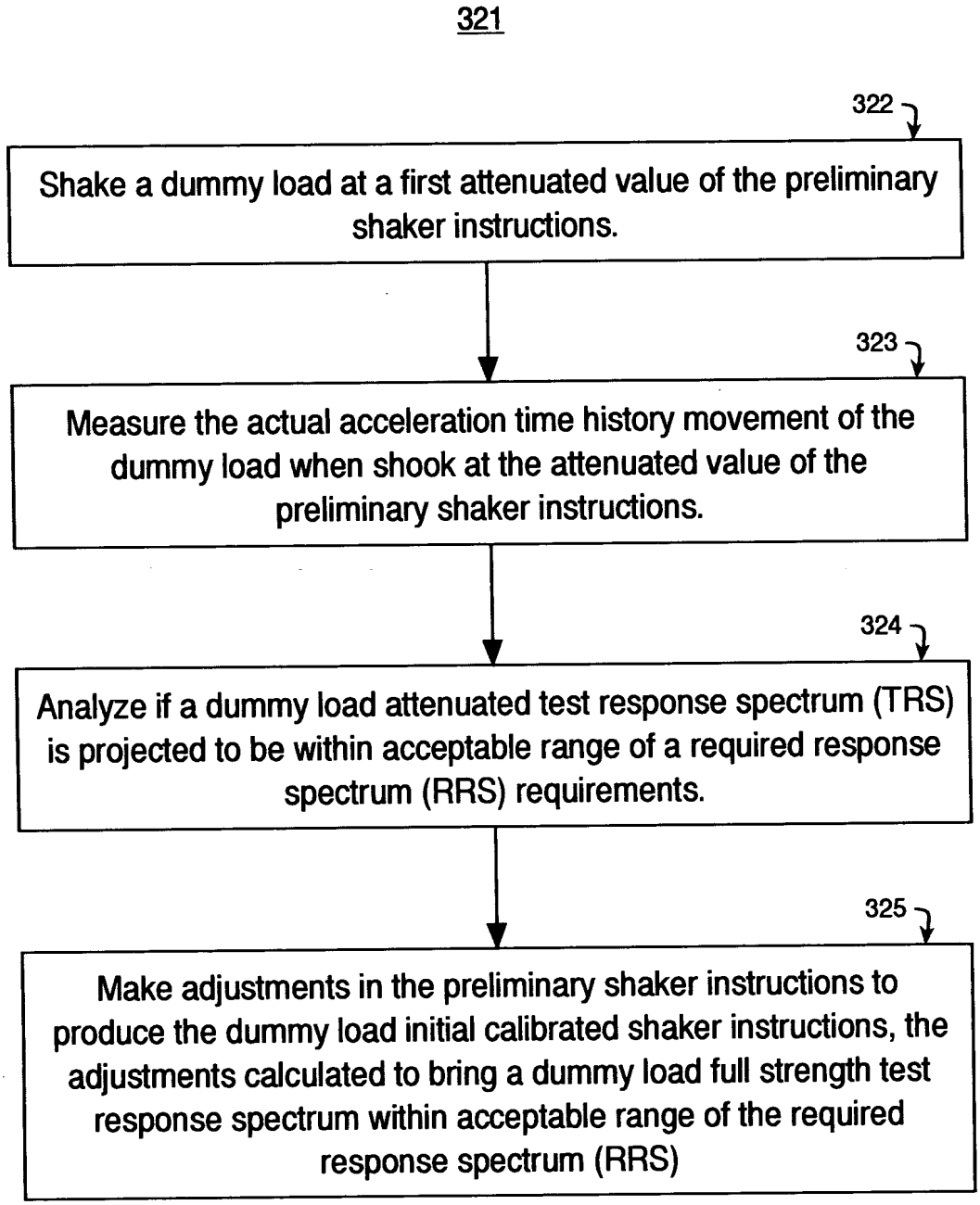

FIG. 3B

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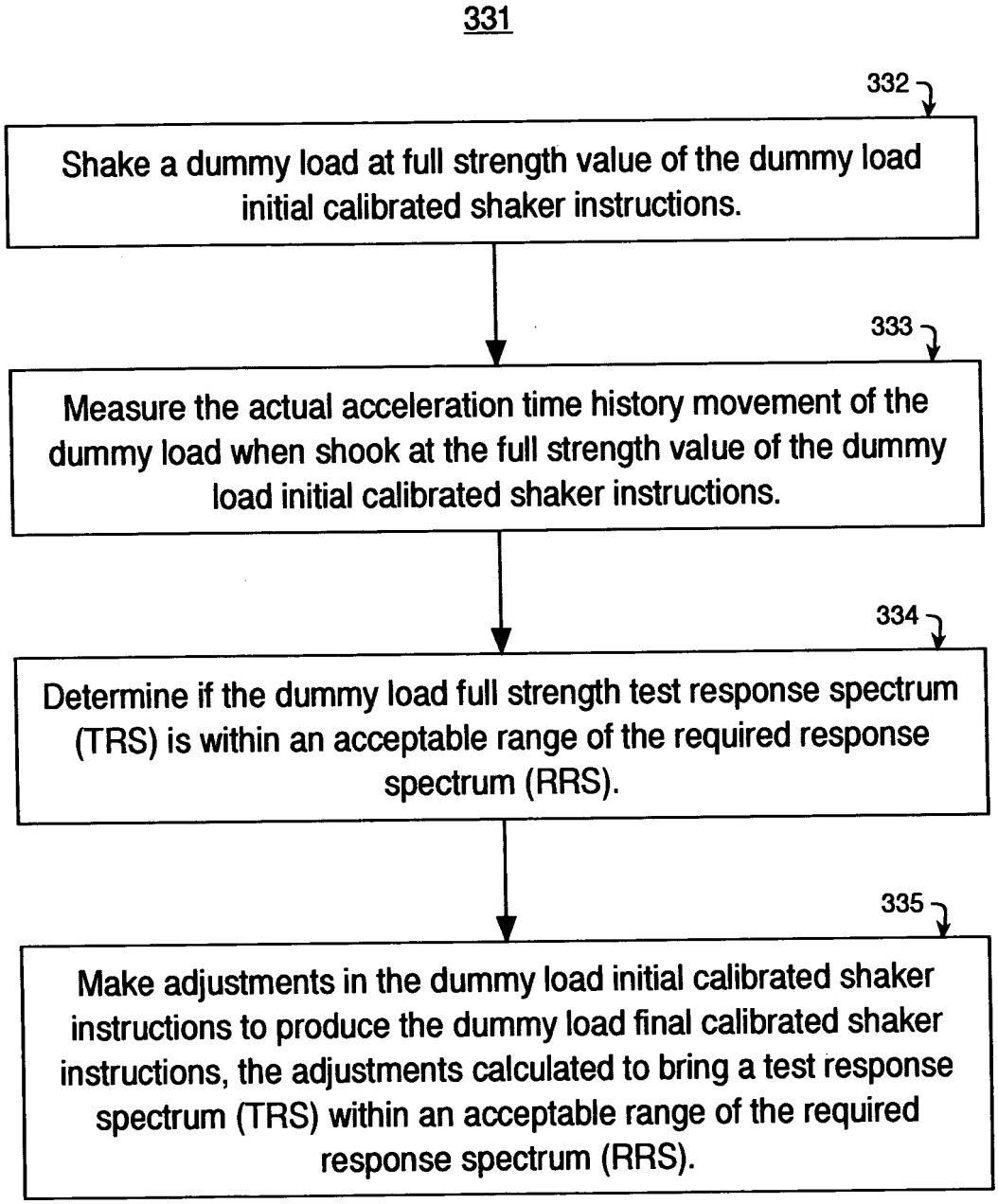

FIG. 3C

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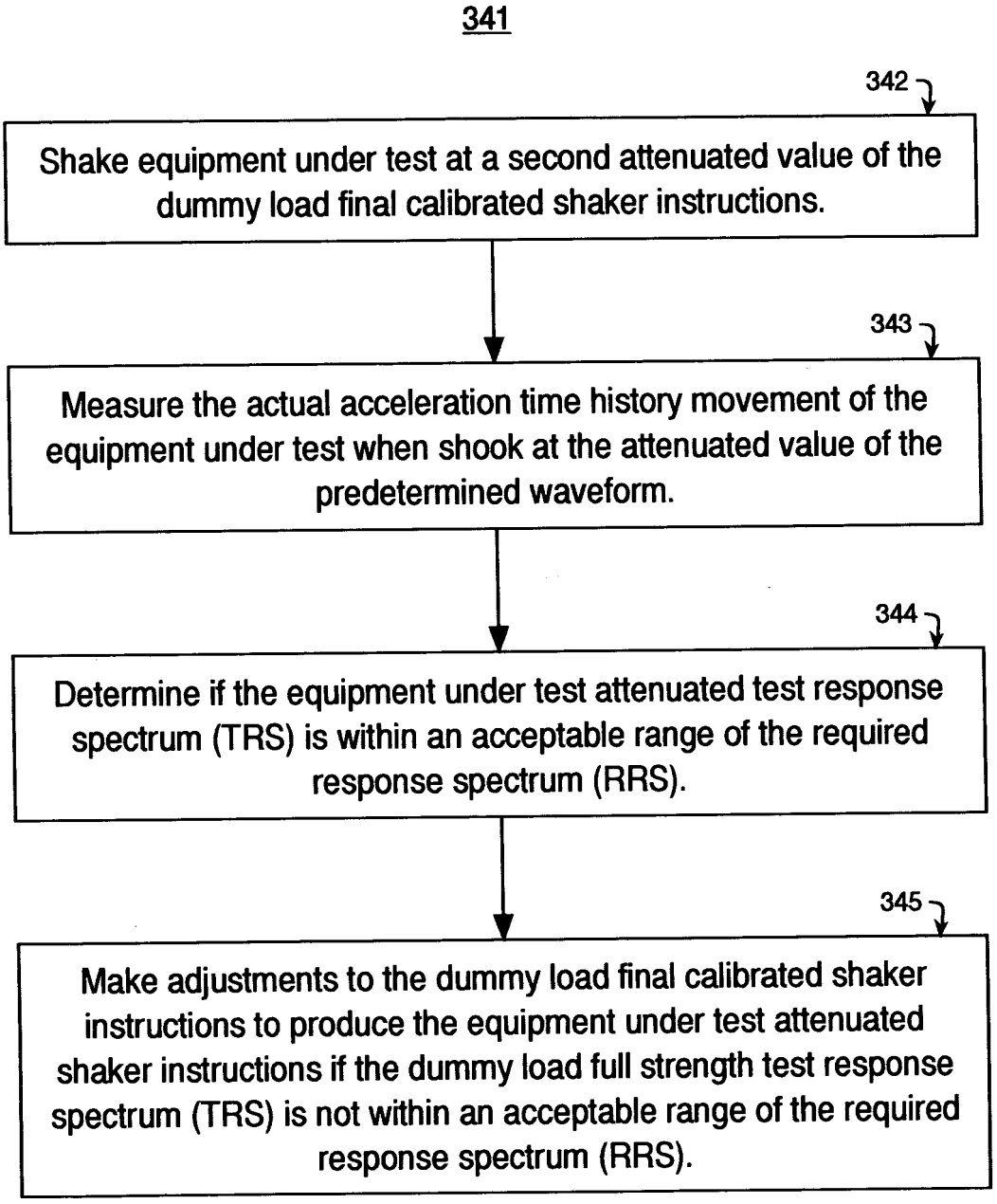

FIG. 3D

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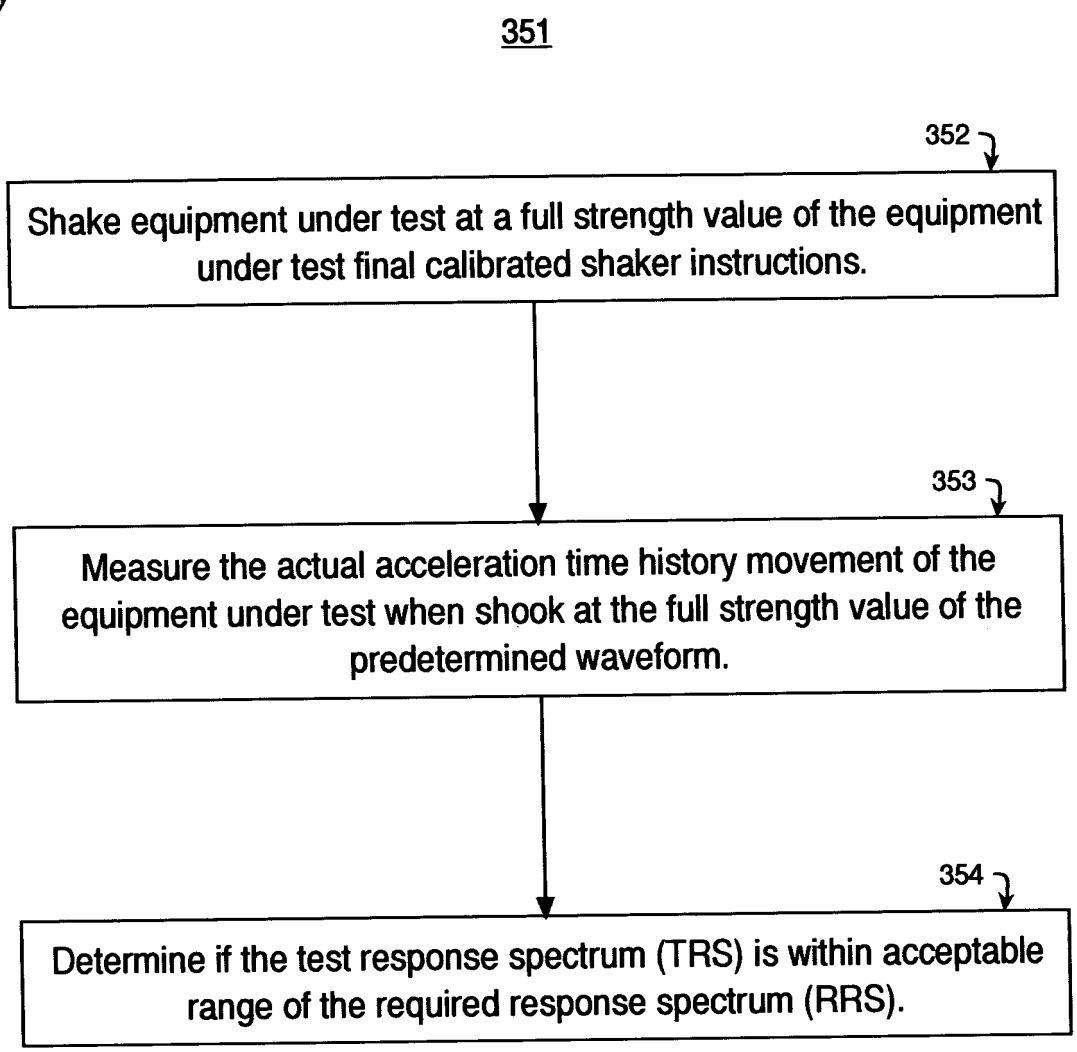

FIG. 3E

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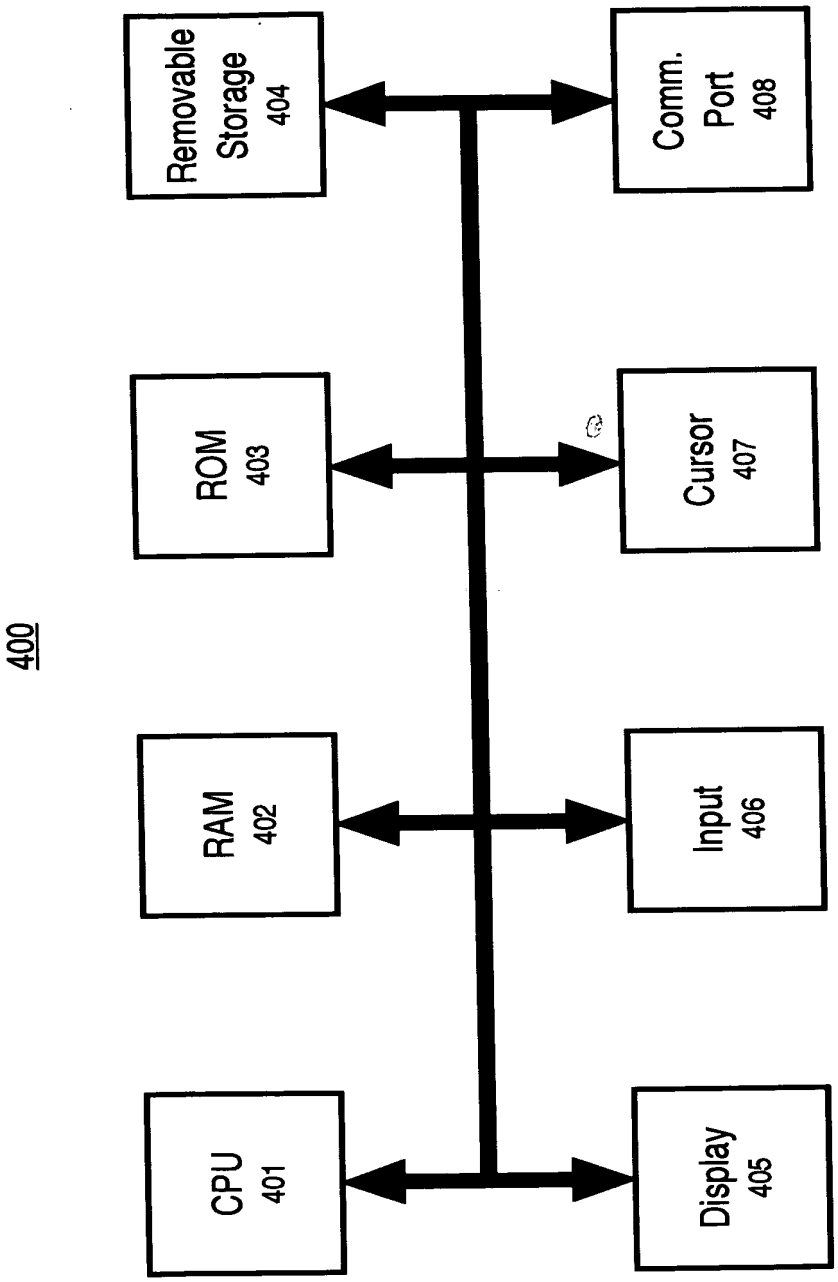

FIG. 4

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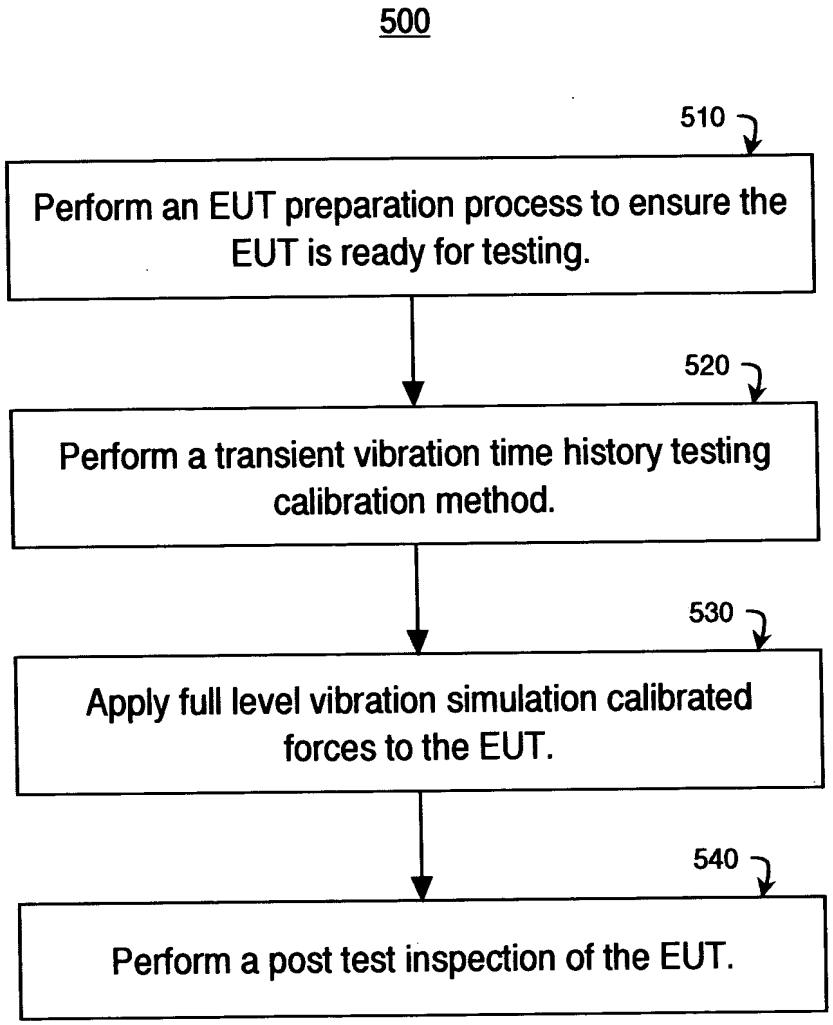

FIG. 5

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600

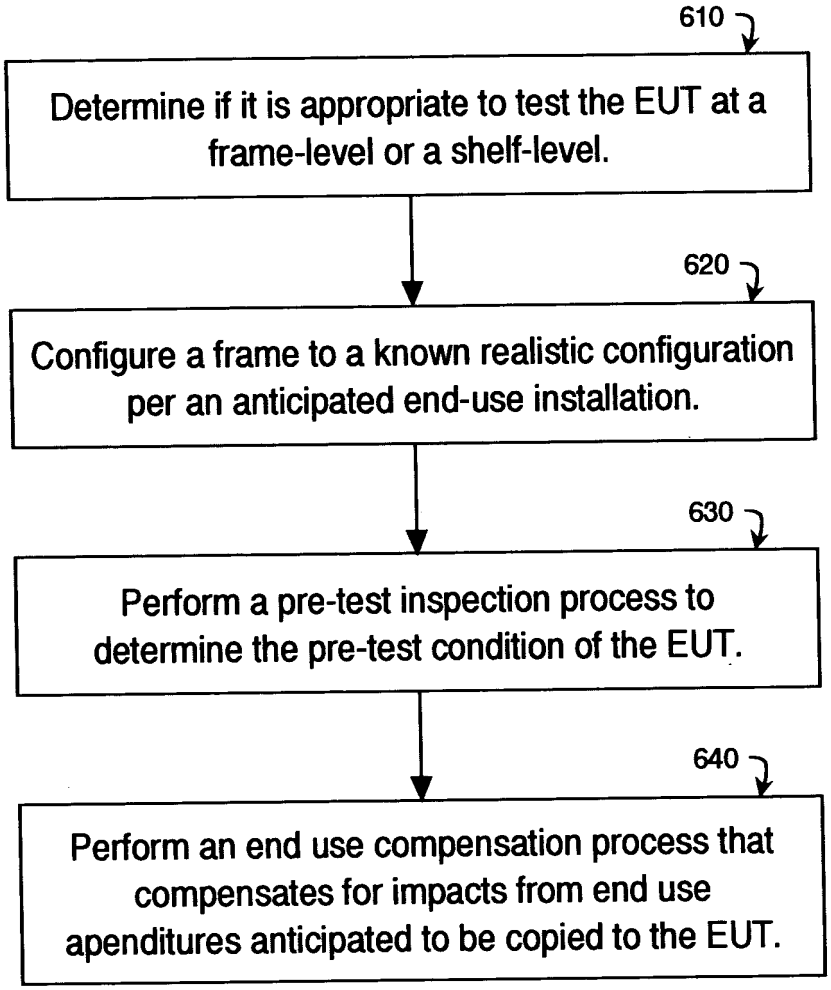

FIG. 6

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Test Parameter	Performance Criteria	Test Tolerance
VERTEQII waveform	TRS shall meet or exceed RRS	TRS less than 30% over RRS from 1 to 7 Hz
Acceleration	Synthesized waveform 1.6 G's peak for 30 seconds	Not Applicable
Data sample rate	200 Hz	Not Applicable
Test frame system weight	435 lbs (approximately)	+/- 5%
Load-cell torque	Up to 65 ft-lbs	+/- 1 ft-lb
Displacement (rack top)	76.2 mm maximum	+/- 5 mm

FIG. 7

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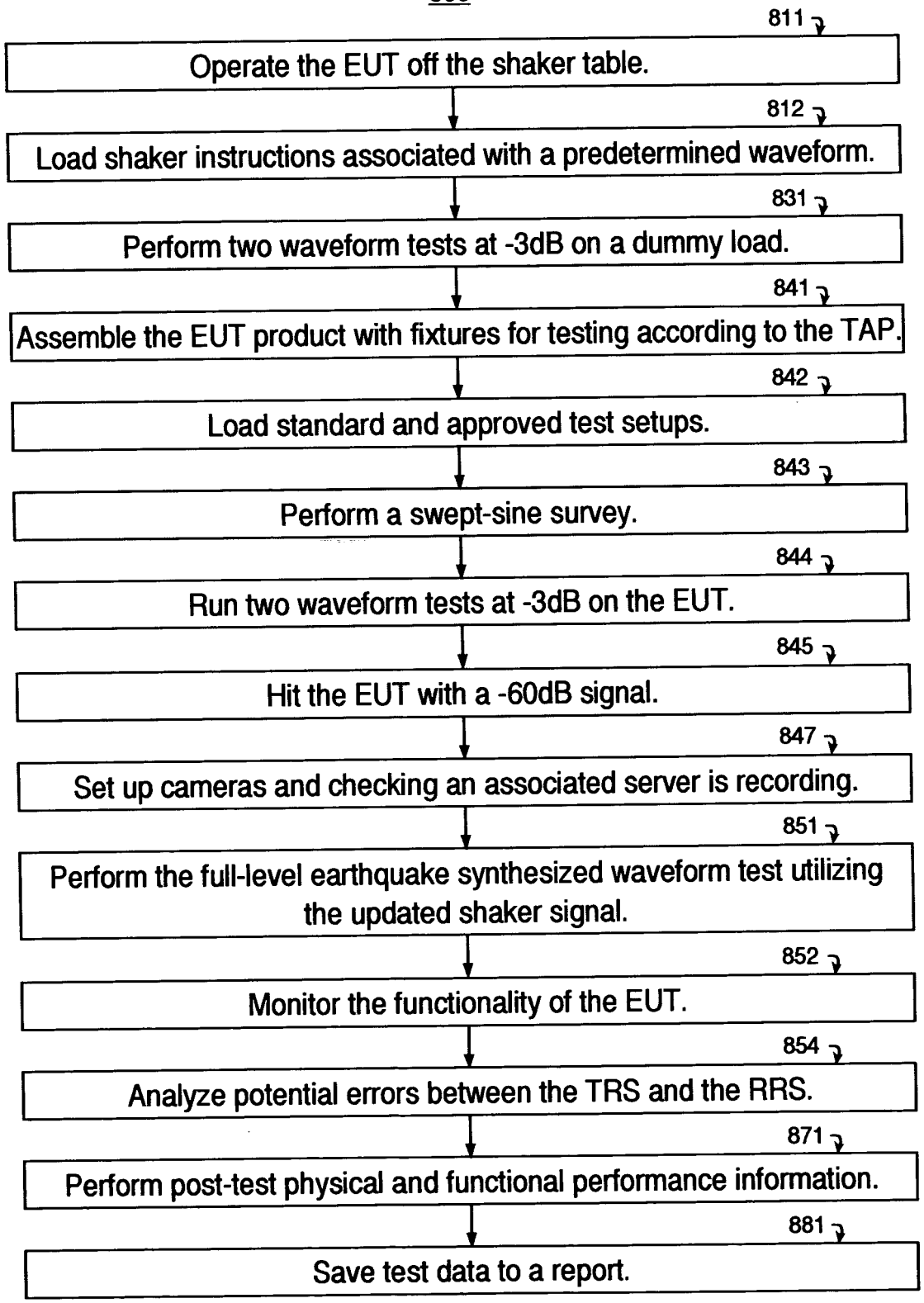

FIG. 8

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Test Parameter	Performance Criteria	Test Tolerance
Frequency Range	1 to 50 Hz	Not Applicable
Sweep Rate	1.0 octave/minute	Not Applicable
Acceleration	0.2 G's	+/- 0.02 G's
Data sample rate	200 Hz	Not Applicable
Test frame system weight	435 lbs (approximately)	+/- 5%

FIG. 9

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Model #	Code Name	Business Unit	BU Contact
:	:	:	:
--------	Vertical	Front-to-Back	Side-to-Side
Date			
Time			
Test Engineer or Technician			
Frame Top Resonant Frequency (Hz)			
EUT Resonant Frequency (Hz)			
Peak Acceleration Response at the top of the Frame (G)			
Displacement (inches or mm)			
Door, Covers, Panels			
Cracks, Buckles, Visual inspection			
Bolt or Anchor Torque values (ft-lb)(4)			
Load Cell Values (lb, all 4)			
LED Status during the Test			
Diagnostic or software function during the Test			
Comments			

FIG. 10